

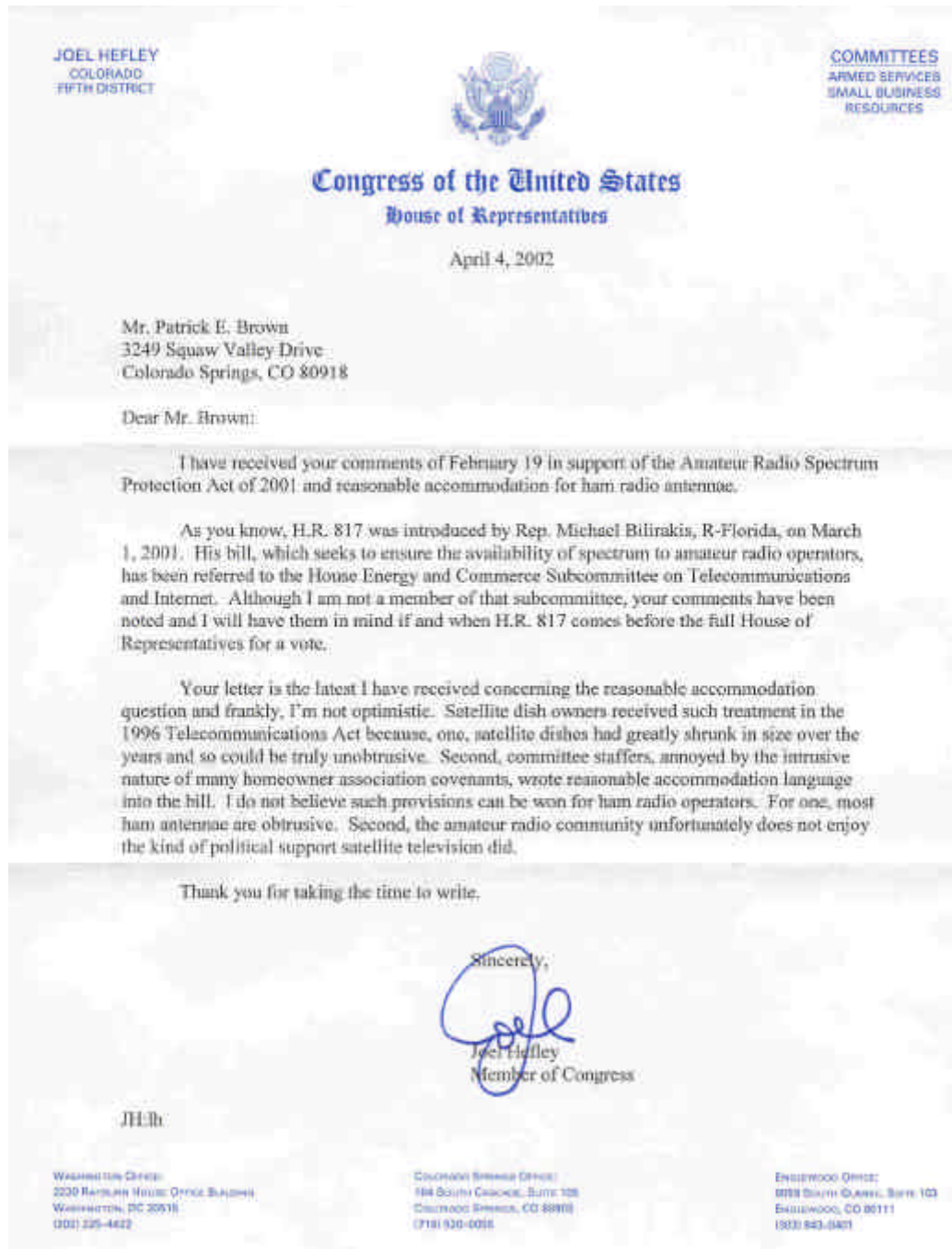


Vol. 52

May 2002

No. 5

US Rep Joel Hefley Responds to Amateur Needs



May Program: Operating in Antarctica by Nick Powell NH6ON

Meetings Our monthly meetings are normally held on the 2nd Wednesday of each month at 7 pm at Mount Calvary Lutheran Church, 1318 N. Circle Drive, about 1/2 way between Platte Ave and Constitution Ave on N. Circle. Our Annual meeting is in October. Check the web site for any changes.

Regular License Exam Sessions

Our ARRL VEC test sessions are on the 2nd Saturday of even numbered months at 0900 at the Denver Technical College, 3245 International Cr, across from Memorial Park. Contact Erik KGØXE for details.

Examinees need to bring (1) \$10, preferably a check or money order payable to ARRL/VE; (2) picture ID; (3) the signed original and a copy of your current amateur radio license and CSCEs you have (we keep the copies); and (4) a pen, pencil, and calculator if needed. Memory calculators will be checked.

PPRAA Web Page See it at <http://www.qsl.net/ppraa/>. Thanks to Lee Inman KØQED, our new webmaster.

Get on the PPRAA E-mail Reflector Stay on top of new or short-fused developments. Send e-mail to majordomo@qth.net; within the body type "subscribe ppraanet". Thanks to John Wishart KCØJFH for maintaining this list.

PPRAA Simplex Net All amateurs are invited to join us on Thursday evenings at 1900 on 146.58 MHz simplex for our club net. Get the latest club and regional happenings!

The *Ø-Beat* is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc, P.O. Box 16521, Colorado Springs, CO 80935-6521. Permission is granted to reprint articles provided credit is given to both the author and the *Ø-Beat*. For membership and subscriptions see the back inside cover of this publication. Monthly advertising rates: Full page \$48; Half page \$24; Quarter page \$12; Business card \$6. Rates are billed quarterly. Send advertisements and payments to Pikes Peak Radio Amateur Association, Inc, P.O. Box 16521, Colorado Springs, CO 80935-6521.

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Board Member	Aaron Pelouze	KD6FLM		
Past President	Sid White	K4ARM		
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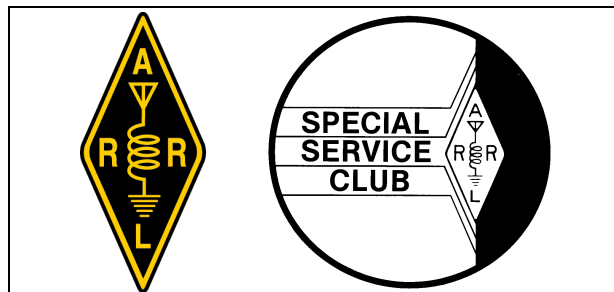
* Indicates this Director is completing the second year of a two-year term

Committee Chairs & Other Contacts

Activity	Sean Mullally	NØCT		
Auditing	Kate Ellis	KCØEGJ		
Asset	Mike Stansberry	KØTER		
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CCARC Liaison	Moe Pierce	WBØRTF		
RACES Officer	Tony Dal Lago	KC4VMB	575-8400	kc4vmb@qsl.net

Upcoming Club Programs

May.....	Amateur Operating in Antarctica by Nick Powell NH6ON
Jun.....	TBD



Articles for the Ø-Beat Deadline for articles or ads for the Jun issue is May 27. Submit articles by e-mail, US Mail, telephone or in person to the editor. Editor reserves right to edit for readability, grammar, spelling, punctuation and length.

Nonprofit Organization The PPRAA is a federal 501(c)(3) nonprofit organization and welcomes all contributions. Your contributions/donations may be tax-deductible.

Ø-Beat Available Electronically in PDF form via e-mail and on the web. Contact the editor for details.

Club and Local News

Joel Hefley Reply to Request for Support *de KØSU Rick Brown, PPRAA President*

As a result of our guest meeting a couple of months ago I wrote a letter to Joel Hefley concerning the Amateur Radio Spectrum Protection Act of 2001 and reasonable accommodation for ham radio antenna. This is the response I recently received (shown on page 1). I will let you draw your own conclusions from the letter. I thought you would all be interested.

Thanks and 73, Rick KØSU

The text of the letter follows (in case pg 1 is illegible):

Dear Mr. Brown,

I have received your comments of February 19 in support of the Amateur Radio Spectrum Protection Act of 2001 and reasonable accommodation for ham radio antennae.

As you know, H.R. 817 was introduced by Rep. Michael Bilirakis, R-Florida, on March 1, 2001. His bill, which seeks to ensure the availability of spectrum to amateur radio operators, has been referred to the House Energy and Commerce Subcommittee on Telecommunications and Internet. Although I am not a member of that subcommittee, your comments have been noted and I will have them in mind if and when H.R. 817 comes before the full House of Representatives for a vote.

Your letter is the latest I have received concerning the reasonable accommodation question and frankly, I'm not optimistic. Satellite dish owners received such treatment in the 1996 Telecommunications Act because, one, satellite dishes had greatly shrunk in size over the years and so could be truly unobtrusive. Second, committee staffers, annoyed by the intrusive nature of many homeowner association covenants, wrote reasonable accommodation language into the bill. I do not believe such provisions can be won for ham radio operators. For one, most ham antennae are obtrusive. Second, the amateur radio community unfortunately does not enjoy the kind of political support satellite television did.

Thank you for taking the time to write.

Callsign Lookup Program *de WBØTAQ Dave Allen*

Hi. I've written a little callsign lookup program for Windows (and DOS), and Doug Moloney suggested that I tell you about it in case you wanted to put it in *Ø-Beat*. It includes its own database, so you don't have to be online to use it, and it's very fast. You can also search for name, city, zip, and state, or any combination, but its main purpose is just call lookups (i.e., that is what it is best and fastest at).

I provide weekly updates, based on the latest fcc data, which is updated on sunday nights. It's all free. I wanted to do it as a service to my fellow traffic handlers (NTS), and for hams in general. It's available on my web site (<http://wb0taq.home.att.net>). You download the tools.zip file and the two halves of the data base. They each take about half an hour with a 56k modem. It can also be put on CD. The weekly updates are only 20kb or so, so downloading them is real fast. You would only need to download the full database once - then keep it updated with the weekly updates. If you miss a week, no problem. I provide monthly "jumps" so if your database is less than a month out of date, you can update it in one jump (step).

Let me know if you have questions. As for me, I'm just getting active again after 15 years of raising kids, etc. CW mostly, NTS, Twelfth Region Net, Pacific Area Net, Transcontinental Corps. Also do Pactor with MBO's for grabbing traffic, and 2m packet (WBØTAQ-1). Mike, KØTER, got me started in all this about 30 years ago. I used to be in the club, and was editor of *Ø-Beat* for a while a LONG time ago.

73, Dave Allen, WBØTAQ, 471-2532 (hm), 590-2217 (wk)

Local 10-10 Chapter Starts Up *de WBØTAQ Dave Allen*

The local chapter here in Colorado Springs / Widefield Chapter called the Colorado Quarter-Master Chapter is now has been confirmed affiliated with 10-10 Int'l Inc.

AKA CQ Chapter

Check it out on the Ten-Ten website or via the 10-10 Chapter Coordinators Website at www.qsl.net/k6rdk/10-10/chaplist.html

Mission Statement

The Colorado Quarter-Master Chapter of 10-10 International Inc. Started on April 20, 2001 after the Previous Chapter Called the Vets QRTed. This chapter supports veterans around the world. Membership into this chapter only requires a valid 10-10 # paid dues. You can join as a Veteran or Supporter of Veterans. We have over 240+ members, in Germany, Australia, New Zealand, United Kingdom, BC Canada, Wales, England, France, Hawaii, and most of the United States.

Colorado Quarter-Master Chapter History

The Colorado Quarter-Master Awards Program (CQ) commenced on April 20, 2001. The goals of this program are to honor those who have served in the armed forces of both the United States and world countries. It is also to promote activity on the 10-meter amateur band, and to promote excellent amateur radio operating procedures. It

is encouraged that all amateurs from around the world participate and help to make Colorado Quarter-Master program a success. This program is a continuation of the famous Vets program that was currently discontinued. So get your numbers today.

Membership

There are 2 main types of members to the Colorado Quarter Master Awards Program. 1) Veterans {Vets} or 2) Support of Veterans {S}.

Any licensed amateur radio operator who is a paid-up 10-10 member who is a veteran of military service, or who is currently on active duty or reserve status, is automatically qualified to join. The other method of joining is to work a CQ member or Instant Qualifier. Every CQ member is an Instant Qualifier for others to join in.

Starting Points and Point Values

CQ Member who are Veterans Starting Points is 100. Those who start as a Veteran Supporters will Start with 50 Points.

CQ Member will have the following designations:

CQ Then # other Designators, and then Veteran or Support. Example: CQ#1AV Colorado Quarter-Master Number 1, Branch of Service, Veteran.

Colorado Quarter-Master with "V" for Veterans "S" for Supporters of Veterans Branch of Service Designator:

"A" for Army	"C" for Coast Guard
"F" for Air Force	"M" for Marines
"N" for Navy	"NG" for National Guard
"W" for Merchant Marine	

Multiple branches of service will be indicated with multiple designators.

Signing Up Via Computer or Snail Mail:

If you meet all the Requirements as stated above then you can be enrolled into the Colorado Quarter-Master Chapter via our online Application at

<http://www.QRZDX.Com/application.html>

A Member wanting to join Colorado Quarter-Master Awards program and > who do not have a Computer or access to a Computer can send a SASE / IRC via

Richard Moore {KCØCMZ}
Application for CQAP#
6935 Sullivan Ave
Widefield, CO 80911

The letter must have the following:

Call sign, name, 10-10#, expiration date, state or country, and if any branch/es of service. This method requires a SASE or, if DX, IRCs for return postage. Note: You can have other members or other stations with / without membership send in your application via their e-mail accounts.

President's Corner de KØSU Rick Brown

Well, I managed to miss last month's Ø-Beat and this one almost got by as well. Things seem to be moving along very well with the club and attendance at club meetings is very good. I am sure the guest speakers appreciate that. Hopefully the trend will continue for us. Summer time is always tough as people get busy with outdoor activities but I would urge you to make the time to come to meetings.

I do want to let you know that we are looking for another meeting location. We need to find someplace that is handicapped accessible so that all of our members can attend meetings. Hopefully I will have an announcement about that very soon.

I see lots of public service coming up this summer and hope many of you can participate. Also, it already looks like it is going to be a bad season for wildfires so we may be called out under and ARES or RACES hat to help with those situations. The old Scout motto of "Be Prepared" sure applies here. I hope everyone has everything they need if the situation arises.

I hope that you all take the time to read the letter I received from Representative Joel Hefley and respond to him individually. Please be professional and point out all of the positive aspects of Amateur Radio. It is a national resource that we need to encourage.

Hope to see you all at this month's meeting!

73, Rick

Other Local "Goings-On" de N7LV Rob Roller

Tech/General/Morse Code: Mike WV7T is offering limited size classes. If you're interested, contact him at wv7t@aol.com, or 634-7168.

Ten-Ten International, Local Chapter: Well, Dave and I had a nice chat over some Village Inn pie on Apr 7, as we waited for other Ten-Ten'ers to bring in their membership cards. Not another person showed up, unfortunately. Dave will continue to try to get things rolling by making a few phone calls. The original goal was to revitalize a long-quiet Pikes Peak chapter of the Ten-Ten, but no one could produce enough records to get the original certificates, the original charter member list, etc. So Dave's plan is to build a similarly named chapter from scratch. It appears that there may not be enough interest. He needs only five more people to get it started. If things don't work out, there is a second Ten-Ten chapter in the area that people can check out if interested. If you didn't go on Apr 7, you can still get a hold of **Dave Sloan NØEOP** at 391-0590.

Public Service & Emergency Communications

The PPRAA is an ARRL Special Services Club, but it is not an emergency services club itself. The PPRAA supports all amateur radio involvement in public service and emergency communications in any way it can, including reporting activities happening in the region. These columns are based on available knowledge of the editor, and the opinions expressed are not necessarily the opinions of RACES, ARES, Skywarn or any other organization, or their leadership. Logos used with permission.

RACES



<http://www.qsl.net/epcraces/>

VHF Net Tuesdays at 1930 on 146.76 MHz
CMRG repeater

Tony Dal Lago KC4VMB, RACES Officer

Training 3rd Thursday of the month at OEM, 305 S Union

At training, Doc WØMCT gave a good talk on basic operator preparedness, and also about basic antennas. Several new members in the audience got introduced to some good basic operating principles. If you haven't updated your information with RACES lately, contact Tony soon. There's new application process on the web site, a link to the Sheriff's application form. We're also moving forward on getting the packet systems back on line, perhaps even APRS. RACES new callsign: KCØMWQ. Last year RACES supported a prescribed wildland fire burn in Black Forest. There's already been one fire in Black Forest; fortunately it was small. RACES could be called upon to support a real fire, so next month's fire training is VERY important. If you haven't practiced on the weather equipment at the OEM, you should learn how to use the sling psychrometer and read the charts. Remember, any ham can participate in training.

ARES



<http://www.qsl.net/ppares/>

VHF Net Tuesdays at 1900 on 146.97 MHz
PPFMA repeater

Wes Wilson KØHBZ, EC

Skywarn training is over until next year. Hope you made it to one of the two spotter training classes. Daily Skywarn nets begin May 15, 1230L daily. Meanwhile, dust off your go-bags, and be prepared for the worst. Other ARES districts are supporting some wildland fires in other parts of the state. It's very possible that support may be necessary down here as well. Check in to the nets for additional training on equipment, etc. Read some of the past after-action reports on the state ARESO web site (linked from the PPARES site) to see the kinds of wildfire support ARES has given. Also, gear up for public service season. Mike KØTER has produced a schedule of events and e-mailed it to the PPARES reflector, and which will be incorporated into the calendar at the back of the Ø-Beat for the rest of the summer.

First, and Last, Call for Pikes Peak Hill Climb Support!



Since this newsletter is only monthly, the June newsletter will be too late to sign up! If you want to volunteer, contact me now! The PPIHC officials have again asked for amateur radio support on the mountain this year's running of the 80th annual Pikes Peak International Hill Climb auto race. I'll pass around a

sign-up sheet at the next PPRAA club meeting, and be asking for volunteers on the PPRAA and the PPARES nets.

[Date: June 29, 2002](#)

We'll again be looking for about 40-50 amateurs to staff various locations along the Pikes Peak Highway, from start line to finish line. Amateurs are the eyes of the race officials, watching for problems that could affect the safety of race participants and spectators alike. Examples of problems are vehicles that have stalled on the track or have driven off the track, spectators driving on the track, etc.

Consequently, we try to position amateurs along the entire course so that as much of the course as possible is visible. Hams have been helping with this event for probably about forty years! Lots of excitement watching the race, busy radio operations during the race, you get some great experience participating in a net, and meeting some new faces. If you've never participated in this event, this year is as good as any to get started! If you're a new ham and want to participate, but aren't sure what



will be expected, we can always hook you up with someone more experienced. Camping is usually allowed the night before, so you campers can plan for an extra day. You can read about support for earlier years. There are after-action reports for some previous races on the state ARESCO web site, in the "Library", under reports, and last year's plan is also posted to the PPARES site, under Mission Plans. Or use these links:

<http://www.qsl.net/aresco/00070414.htm> <http://www.qsl.net/aresco/99070414.htm>
<http://www.qsl.net/ppares/Plans/ppihc-01.pdf>

The web page for the 2002 ham radio support will be at:

<http://www.qsl.net/n7lv/ppihc.htm>

73, de N7LV 282-0204 n7lv@amsat.org

Articles

Computer Performance Fundamentals

de KIØPE Seth Bardash

[Ed: Part IV and final part of a multipart article.
 Seth's e-mail address is seth@integratedsolutions.org if
 you want to contact him.]

Input/Output (I/O) Performance

Most of the I/O that we add to a computer system today sits on the PCI bus. These connections are made using the (in most cases) four to six white parallel connectors on the motherboard. Most of the on-board peripherals are connected to an internal PCI bus. The PCI bus has 4 flavors: 32 bit / 33 MHz, 64 bit / 33 MHz, 32 bit / 66 MHz and 64 bit / 66 MHz. The first one is the most popular today. Some of the manufacturers are starting to put the faster, 64 bit PCI slots onto motherboards. Most of the I/O card vendors now offer a choice of 32 bit and 64 bit I/O cards that are "universal" in that they work in all four types of PCI slots.

To optimize the performance of a computer system, it is always better to use 64 bit cards in 64 bit PCI slots. This type of arrangement allows the motherboard to write or read the I/O card at twice the speed of a 32 bit I/O card. As the availability of higher performance I/O cards goes up the price will come down, making it easier and less expensive to build a high performance system.

When comparing I/O cards look for their bus type and speed and whether they contain an intelligent I/O processor on board. This I/O processor offloads some of the work required to communicate with the peripherals outside your system. This leaves most processing power available for the applications running inside the machine. The down side to this is that intelligent I/O cards are more expensive than simpler cards that rely on the internal CPU for control.

Summary

1) CPU Performance

A faster processor, with more cache, with a faster FSB, that can do more in a single clock will usually give better performance.

2) Memory Performance

Larger memory, with a faster access time will usually give better performance.

3) Disk Performance

A disk with a higher rotation speed, with faster track to track access time, with more cache and a higher track density will usually give better performance.

4) I/O Performance

A Intelligent I/O Card with a faster (66 MHz), wider (64 bit) PCI interface will usually give better performance. Note that all of the above statements read "usually". This is because there are limitations on how fast a given function can run. An example of this is a modem. A 56K modem will never run faster than the phone line connection. The limitation is the phone line. The same hold true for almost all of the above items that were discussed. No matter how fast a CPU you use, if the program you are running causes a lot of disk accesses the CPU will still have to wait for the disk access to complete before it can continue. This is called waiting faster (more unused CPU clock in the same wait period). The overall key to high performance is to balance the speed of all the components listed above so that it is possible to get the best overall system performance for a given dollar spent on a computer.

If you have questions about the above article or want to discuss the trade-offs of a system design please email or contact me.

Colorado Connection News *de WBØQMR Paul Shackelford*

03/04/2002 SPRING IS HERE AT LAST!

We at The Connection are pleased to host the Spring meeting of The Colorado Council Of Amateur Radio Clubs. It will be held on April 27th at The Summit County Library Silverthorne Branch. The library is in the same parking lot as The Silverthorne Town Hall. Your club should have received a notice by now but please be sure that your club sends a representative to this meeting as many state wide issues will be discussed. Talk in on The Summit County Connection repeater 146.79.

Ski season is about over and Repeater season is about to start. We have been fortunate that most of The Connection repeaters have made it through the long winter with little or no attention. This is especially true with the mountain top sites that virtually have no access in the winter.

The next month or two will be devoted heavily to planning new sites and improvements to others. Most of this planning goes on at the monthly Volunteers meetings that are held in Denver on the second Tuesday of every month from March to September. If you have any ideas on system expansion or maintenance or FUND RAISING please come to one of the meetings. Detailed directions are available by giving a call on The Connection on the afternoon of the meeting but generally it is near I-70 and Holly St. in Denver. Hope to see some of you at the next meeting.

When is a Radio Not A Radio? *de N7LV Rob Roller*

When it's an internet radio, that's when! Just in the past few weeks I've been seeing comments on the new internet linking radio projects out there. Plus, as you read in last month's *Ø-Beat*, the CSARA has installed such as system on their 146.625 repeater. Some recent news from the Amateur Radio Newsline states that Australia is not allowing iLink on any repeaters there due to the availability of the software. Because iLink is

openly available, even non-hams can install it and use it. This creates the possibility of abuse, and the Australian officials are not allowing that.

Another article written by Stan Horzepa WA1LOU (on the ARRL web site) talks about the same thing, and how a person can earn a ham license, then talk around the world without buying a ham radio or antenna, in fact, without even *using* a ham radio!

I'm sorry. I guess I'm just an old fuddy duddy or something. I'm just not ready for hams that don't use radios. I can't imagine being a ham, communicating without a microphone in my hand, a VFO under my fingertips, and maybe headphones on my head. I can't imagine not having spent the time hooking up the radio to a power supply, running coax to a newly installed antenna, checking the antenna's SWR, reading the rig's owner's manual (huh?), calling CQ for a radio test, and so on.

Don't get me wrong. I'm not against the IRLP or iLink in general. I'm 100% in favor of the systems, and wholeheartedly support what we have here in Colorado Springs and Denver. I think it's great that we can use the internet to extend our repeater's range without limits, digitizing our voices and carrying them to another repeater somewhere else on the globe. Technology advancements must continue to be integrated into the service. But think of the day you start a QSO by asking the other fella what kind of antenna and rig he has. He'll say, "Rig? What's a rig? No antenna here, I'm on the internet! Don't own any radios!"

Maybe this is the next phase of the evolution of amateur radio: the reduction of CW speed requirements, the elimination of CW altogether eventually, and now ham radio evolving into an internet utility. Yes, I'm exaggerating a bit. I don't expect to see a multitude of hams with no radios getting on from their computers. At least, not for a while. We wouldn't be much use to a public service agency if we all had to get on our PCs at home to communicate. I just thought it would be interesting to take note of the trends as we gradually integrate ham radio and computers even more.

Club Business

Board Meeting Minutes *de NØMIK Mike Allen, Secretary*



The April 15, 2002 PPRAA Board of Directors (BOD) meeting was called to order at 7:00 PM by President Rick Brown, KØSU at the home of Bob Wogaman, KBØB. Present were Tom NØNTX,

Rob N7LV, Mike NØMIK, Ron NKØP, Aaron KD6FLM, Roger KE6ZOT, and Kate KCØEGJ. The May BOD meeting will be held at Mike NØMIK's home. Reviewing the upcoming Programs, May's program will be a presentation on Antarctic expeditions by Nick NH6ON, and June may be devoted to Field Day. Business topics started off with a request from Rick for \$150 seed money for the

convention in 2003. The BOD voted unanimously to provide it. Next was the subject of meeting location. Rick had received a complaint regarding handicapped access at our current location, and wants to look hard at finding another location. Several possibilities were discussed including City OEM auditorium and the Olympic Training Center. Rick next passed around the letter he had received from Joel Hefley, which Rob N7LV will post on the club web site. Rick will also send it out via the club reflector. Next Rick submitted a copy of the letter he'd sent to the estate of George Farina KBØEXX (SK). The letter to Fay Herron KBØQI (SK)'s estate needs some corrections and will be sent out later. The MFJ code machine has arrived and is being checked out by Bill Stanfill K4YCD. It's cost was \$189.95 plus \$9.95 shipping. Going around the room, Rob N7LV announced that membership was up to 179 paid members. Rick had sent a message to the CMRG president accepting their offer to supply swapfest prizes, but has not heard back from him. Publicity chairman Roger KE6ZOT had no activity to report, but began discussion on Field Day publicity. Reporters from the Gazette and local TV stations will be contacted in advance of field day to give them time to prepare should they want to cover it. Discussion then moved to Field Day in general. The site is free, but the Porta-johns will have to be paid for as will the food. Field Day Sunday will be Kate KCØEGJ's and Mike KØTER's birthday, but don't tell them how you found out! Tom NØNTX is taking orders for Field Day T-shirts and pins. Shirts are \$12.95 ea (\$10.00 for an order of 75 or more) and come in Med to XXL. Pins are \$5.00 each. Contact Tom via e-mail. Bob KBØB asked who was supplying the tables for Swapfest. Tables are coming from Brady's and will be picked up at 2:30 PM. The meeting adjourned at 8:49 PM.
de Mike Allen NØMIK, Secretary

Membership Report

de KCØNC Les Borst, Membership Chairman

Please welcome these New Members

JIMMY D HARRIS AB0UK

Total Number of Members

173

General Meeting Minutes

de NØMIK Mike Allen, Secretary

President Rick Brown called the meeting to order at 7:05 p.m. 62 members and guests were present. In the absence of Secretary Mike Allen (NØMIK), Rick asked for a Secretary ProTem volunteer. Kate Ellis KCØEGJ graciously, and without hesitation or arm-twisting, volunteered. Jeff KØRM motioned and Mike NØMUD seconded to accept the minutes from the March meeting as published. The motion passed unanimously. Ron NKØP presented the Treasurers report, and stated that as of 3/31/02 the balance in the account was \$3,192.32. Committee Reports were given as follows: Assets: Mike Stansberry KØTER and Les Borst KCØNC asked if anyone knew where the

guy wires and stakes and turnbuckles for the club tower were located. They were last seen at Field Day last year, and are not with the tower. Please contact either Mike or Les if you know where they are...we need to locate them. Membership: Ron NKØP stated that we are now pro-rating dues. If anyone pays full price now, they still expire 12/31 and donate the balance to the club. Programs: Next month, NH6ON Nick Powell will speak on Antarctic expeditions. Publicity: Rick announced that Roger Foust KE6ZOT volunteered to fill the publicity slot and anyone should forward ideas to him. Swapmeet: Bob Ryals KIØGF stated that the 2002 Megafest is on track. Table rentals are available from KBØREI Carlos. Door prizes are being solicited. Raffle tickets are for sale and labels are being made if anyone purchases a bunch! The planning meeting this month is April 27th (last Saturday) at 9 a.m. at the Falcon Police Sub-Station. Testing: Rick announced that a VE test session will be April 13th (Sat.) at the regular site on International Circle. AMSAT: Tom NØNTX updated the group on SaudiSat1A, a new repeater/satellite. Get with Tom for frequencies and times. ARES EC: Wes KØHBZ updated us on Skywarn training to be held at Agilent on Saturday April 13th. Contact Sid K4ARM to sign up. CCARC: Moe WBØRTF stated the next meeting will be on April 27 in Silverthorne. RACES: Doc WØMCT will be the presenter at 7 p.m. at the OEM on April 18th. ARRL Rocky Mtn Division Convention: Jerry, ADØA told us that HamCom Corporation has been set up for the 2003 Convention, to be held the end of May thru early June at Estes Park. Riley Hollingsworth, FCC Enforcement Bureau, has agreed to be the banquet speaker. Rick Brown, KØSU, and our esteemed president, is the PPRAA representative to Convention. Webmaster: Lee KØQED has taken over and re-vamped the website. All were encouraged to visit. Mail Reflector: John KCØGFH stated, "If you're not getting mail from the reflector and want it, see me." Field Day: Mike Stansberry KØTER stated that the event is June 22-23rd at the Agilent Tech Recreation Area outside Woodland Park. We will be doing it again with the Mtn Amateur Radio Club. Stations are as follows: Satellite, Tom NØNTX; GOTA Wes KØHBZ; CW, Mike KØTER; VHF/UHF, Dick K2LCT. HF/SSB Phone still needed a coordinator, and after discussion, Rick KØSU and Bob KBØB offered to work on it if no one from the MARC wanted to. Mike also asked for a food coordinator; Wes KØHBZ would like to operate more this year instead of cook. Announcements: Next Board Meeting is April 15th at Bob KBØB's QTH at 7 p.m. Ron NKØP announced he has Club Patches for sale for \$5; and CD ROMs of 1980-99 Ø-Beats at \$10/each. Ron also has renewal forms for membership, and ARRL new applications. Unfortunately, the club cannot process ARRL renewals any longer. Moe WBØRTF announced that this Friday's Lunch Bunch would be at the Citadel Crossing at 11:30 a.m. Mike WV7T announced that his Youth Presentation has been postponed so as not to conflict with the May 4th Balloon Launch. He will announce the new date, which will be before Field Day. Russ, KBØFNM and Rosie WAØMNL are soliciting help. They are moving into a condo on Saturday, April 20th. Rosie suggested we all get together for dinner Sunday Night the 21st at the Country Buffet at the Citadel Crossing. Of course, those who helped them move on Saturday can leave their money at home! Jeff, KØRM announced the May 4th EOSS Balloon Launch.

NOAA will be flying a payload, and has requested a 7 a.m. launch in order to collect the data they need. Meet at Meadowlake Airport sometime before 7 a.m. to watch the action. Rick, KØSU, stated that since the club supported the Spectrum Defense Fund through ARRL, the club received one collectable mug and pin. It was decided that Ron NKØP will auction it as a fundraiser, at the May club meeting. Rick KØSU also shared a letter from Representative Joel Hefley, regarding the Spectrum Defense issue. Rep. Hefley's views were very surprising. The letter can be found in May's Ø-Beat and on the website. Be sure to read it, especially prior to elections! Bob KBØB is taking jacket orders for the club jacket. They run \$30-\$35 and when he gets enough orders, will submit them. He will also check on having shirts printed. Ron NKØP reminded everyone about the club pins, which can be ordered at Plaque World on Murray and Platte. Bob Snowden NRØO is the owner, and has club cups and other items for sale. Wes KØHBZ has green Emergency Communications reflective signs for sale \$30/pair. Rick introduced Ryan KCØGLQ who is the Club's Simplex Net Coordinator, and acknowledged him for his hard work. There being no further new business....Presentation of Hammy: Wes KØHBZ last month's Hammy recipient, spoke eloquently on his desire to present the hammy to a representative of a special group of people, and not just to a "fuddy-duddy" He recognized, along with the club, all newly licensed hams for the past 2 years, as they are the future of ham radio. He chose one person to represent these hams, KCØMAA Rachel (who unfortunately was not in attendance). Rachel got her license when she was 10, and at 11, is very active on the air. A very informative program was presented by Shel Radin KFØUR on PSK31.

New Book Out *de KØNR Bob Witte*



Bob Witte KØNR (formerly KBØCY) recently completed the 2nd edition of his book on Electronic Test Instruments. The book covers a wide range of test equipment including meters, function generators, signal generators, oscilloscopes, power supplies, spectrum analyzers and logic analyzers. Bob works as an electrical engineer for Agilent

Technologies, here in Colorado Springs. The book is available online at www.amazon.com.

Military / Ham Crossband Test *de KØHBZ Wes Wilson*

MILITARY/AMATEUR CROSSBAND COMMUNICATIONS TEST (11- 12 MAY 2002)

1. THE ARMY, AIR FORCE, NAVY, MARINE CORPS, AND COAST GUARD ARE CO-SPONSORING THE ANNUAL MILITARY/AMATEUR RADIO COMMUNICATIONS TESTS IN CELEBRATION OF THE

52ND ANNIVERSARY OF ARMED FORCES DAY. ALTHOUGH THE ACTUAL ARMED FORCES DAY IS CELEBRATED ON SATURDAY, MAY 18, 2002, THE ARMED FORCES DAY MILITARY/AMATEUR CROSSBAND COMMUNICATIONS TEST WILL BE CONDUCTED ON MAY 11, 2002 (LOCAL) SO AS NOT TO CONFLICT WITH THE DAYTON HAMVENTION WHICH IS ON THE SAME WEEKEND (17- 19 MAY, 2002) AS THE ACTUAL ARMED FORCES DAY.

2. THE ANNUAL CELEBRATION FEATURES TRADITIONAL MILITARY TO AMATEUR CROSSBAND COMMUNICATIONS TEST AND THE MESSAGE RECEIVING TEST. THESE TESTS GIVE AMATEUR RADIO OPERATORS AND SHORT WAVE LISTENERS AN OPPORTUNITY TO DEMONSTRATE THEIR INDIVIDUAL TECHNICAL SKILLS AND RECEIVE RECOGNITION FROM THE SECRETARY OF DEFENSE OR THE APPROPRIATE MILITARY RADIO STATION FOR THEIR PROVEN EXPERTISE.

3. AN ABBREV LIST OF FREQS IS SHOWN BELOW. THE FULL LIST, INCLUDING PACTOR, RTTY, AMTOR, CLOVER, IS AVAILABLE ON THE US ARMY MARS WEB SITE: http://www.asc.army.mil/MARS/afd/mars_afd.htm THE MILITARY STATION OPERATOR WILL ANNOUNCE THE SPECIFIC AMATEUR FREQ BEING MONITORED. (NOTE: DUE TO SPACE RESTRICTIONS IN THE Ø-BEAT, SOME FREQS AND MIL STATIONS ARE EDITED OUT.)

STATION: AIR (11 MAY 1200Z - 12 MAY 0400Z)

FREQUENCY	EMISSION	AMATEUR BAND
4026.5 KHZ	LSB	80M
6894.5 KHZ	USB	40M
7316.5 KHZ	LSB	40M
13985.0 KHZ	USB	20M
13996.0 KHZ	USB	20M

LOCATION: ANDREWS AFB, DC

ADDRESS: 789CS/SCP,
ANDREWS AFB DC 20762-6116

STATION: NAV (11 MAY 1200Z - 12 MAY 0200Z)

FREQUENCY	EMISSION	AMATEUR BAND
4010.0 KHZ	RTTY/LSB	80M
7348.0 KHZ	RTTY/LSB	40M
14478.5 KHZ	RTTY/USB	20M
20994.0 KHZ	RTTY/USB	15M

LOCATION: WILLIAMSBURG, VA

ADDRESS: HQ NAVMARC MARS RADIO STATION
CHEATHAM ANNEX BLDG 117, 108 SANDA AVE
WILLIAMSBURG, VA 23185-8830

STATION: WAR (11 MAY 1200Z - 12 MAY 1200Z)

FREQUENCY	EMISSION	AMATEUR BAND
4020.0 KHZ	LSB	80M
6910.0 KHZ	LSB	40M
7363.0 KHZ	LSB	40M
13512.5 KHZ	USB	20M
14928.5 KHZ	USB	20M
20518.5 KHZ	USB	15M

LOCATION: FT DETRICK, MD

ADDRESS: COMMANDER, 1110TH SIGNAL BATTALION
1671 NELSON STREET

ATTN: MARS STATION BLDG 1678

FT DETRICK, MD 21702

(Cont'd bottom of next page.)

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AEA MM3A, Morse machine, keyer, tutor \$100
ALINCO M06T, 6m FM, w/ tone \$100
ASTRON RS35A, P/S, very little use \$100
ASTRON RS35M, w/meter, used @220 VAC \$120
BUTTERNUT HF5B, HF Beam, 10, 12, 15, 17 & 20m, new in box \$275
BUTTERNUT HF6VX, 80-10m vertical, good cond \$175
DENTRON MT2000A Tuner, 1KW RF \$100
HEATH HW101, HP23 PS, new finals and relay driver, completely aligned to factory specs \$250 firm
ICOM PS55, 20 amp power supply \$125
ICOM 211, 2m, all mode, base unit \$275
ICOM 730, 80-10m, WARC not gen cov \$350
ICOM 735, 160-10m, WARC gen cov, with hand mic, electronic keyer, mounting bracket \$550; w/o keyer & mb \$500
ICOM 745, new in box \$450
ICOM 745, w/ int PS, loaded with filters and TCXO \$500
ICOM 2340H, 2/70 (only works on 70cm), mobile \$100
KENWOOD AT250, auto tuner \$200 & 1 @ \$175
KENWOOD TR9130, 2m, all mode mobile, TTM, enc box \$200, w/o tone \$150
KENWOOD TS140S, WARC gen cov \$465
KENWOOD TS430S, WARC gen cov, w/MB, hand mic, manual, pow cord, exc cond in box \$485
KENWOOD TS520 & 520S, not dig, not gc, \$350 & \$325
KENWOOD TS530S, digital, WARC, not gen cov, base unit, excellent, similar to TS830S \$475

KENWOOD TS570D, HF & 6m, very little use \$750
KENWOOD TW4000A, 2/70m dual band mobile, no tone \$100
MFJ 259B SWR analyzer, VHF, new \$230
MFJ 269, SWR analyzer, HF-470mhz, new \$310
MFJ 462B, all mode multi reader, CW, RTTY, ASCII, AMTOR, will hook to printer \$90, new was \$170
MFJ 9406X, 6m SSB, new \$240, CW adapter, new \$35
MICROCOM AX9624C, PK232 MBX-5.5 PACTOR upg chips, disks & s/w \$120
MIRAGE A1015G, 6m amp, preamp, 10/150w, like new \$250, new was \$350
MIRAGE B3016G, 30-50 in, 160 out, used \$175, new was \$300
MIRAGE D1010N, 440 amp, 10/100w \$225, new was \$360
RANGER 2950, 10,12m AM/FM/CW/SSB, 25w PEP, w/ tone for 10m repeaters, new \$245
RANGER 5054DX, 6m all mode, 10w AM/FM/CW, 25w SSB, new, only one on hand \$295
YAESU FT2400H, w/ tone, 50w \$100
YAESU FT101E, xcvr with hand mic, good cond, new finals & driver tubes \$350, also EE \$300
YAESU FT101ZD, digital, great cond \$400
YAESU FT102, digital, am/fm, WARC, excellent cond \$550
YAESU FT109RH, 220 Mhz HT, 4w \$100, w/ tone encoder installed \$150
YAESU FT7B, 80-10m, AM/CW/SSB HF mobile \$250
YAESU FTV707, Transverter, 6m module installed, for FT707-901-902 \$150

Complete line of **ARRL** Books, **ASTRON** & **MFJ** switching and transformer power supplies

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 evenings 6 - 8 by appointment only, closed Sun & Mon

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May 2002

5. SUBMISSION OF TEST ENTRIES. TRANSCRIPTS OF THE RTTY, PACTOR, AMTOR OR CLOVER RECEIVING TEST SHOULD BE SUBMITTED 'AS RECEIVED.' DO NOT CORRECT POSSIBLE TRANSMISSION ERRORS. PROVIDE TIME, FREQUENCY AND CALL SIGN OF THE MILITARY STATION COPIED, INCLUDING NAME, CALL SIGN, AND ADDRESS (INCLUDING ZIP CODE) OF INDIVIDUAL SUBMITTING THE ENTRY. ENSURE THIS INFORMATION IS PLACED ON THE PAPER CONTAINING THE TEST MESSAGE. ENTRIES MUST BE SENT TO THE FOLLOWING MILITARY ADDRESS AS FOLLOWS:

A. STATIONS COPYING AAZ, AEA, OR WAR SEND ENTRIES TO:

ARMED FORCES DAY CELEBRATION

CHIEF, ARMY MARS

HQ, USASC, ATTN: AFSC-OPE-MA (MARS), FORT HUACHUCA, AZ 85613-5000

B. STATIONS COPYING NAV, NAV-2, NAV-4, NBL, NPL OR NUW SEND ENTRIES TO:

ARMED FORCES DAY CELEBRATION

CHIEF, NAVY-MARINE CORPS MARS

CHEATHAM ANNEX BLDG 117

108 SANDA AVE, WILLIAMSBURG, VA 23185-5830

C. STATIONS COPYING AIR SEND ENTRIES TO:

ARMED FORCES DAY CELEBRATION

CHIEF AIR FORCE MARS, C/O MR VAN EVANS

789CS/SCP, ANDREWS AFB DC 20762-6116

Pikes Peak Region Ham Radio Event Calendar

May / June 2002 -- Please see Page 2 for Points of Contact						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4 MARC VE Testing RMD Conv Mtg EOSS Launch COS Emergency Preparedness Fair
5	6	7	8 PPRAA Mtg	9	10 Lunch Bunch	11
12	13 Board Mtg	14	15 MARC Mtg Skywarn Nets Begin (Daily @ 1230L)	16 RACES Training	17 Dayton!	18 Dayton!
19 Dayton!	20	21	22	23	24	25 Swapfest Mtg WY Hamfest & Convention PSE: Cavalier Trail Ride
26 WY Hamfest & Convention PSE: Cavalier Trl Ride	27 ZB Deadline Memorial Day	28	29	30	31	1 PPRAA Hamfest
2	3	4	5	6	7	8 PPRAA VE Testing RMD Conv Mta
9 PSE Garden of the Gods 10K Run	10	11	12 PPRAA Mtg	13	14 Lunch Bunch Flag Day	15
16	17 Board Mtg	18	19 MARC Mtg	20 RACES Mrg	21 Field Day Setup	22 Field Day!
23 Field Day! PSE Starlight Spectacular	24 ZB Deadline	25	26	27	28	29 PSE PP Hill Climb
30						

Questions about any event on this calendar? Something missing? Try our web page, or contact a Board Member!

Membership Application for the Pikes Peak Radio Amateur Association, Inc. P.O. Box 16521, Colorado Springs, CO 80935-6521		
Date: _____	<input type="checkbox"/> New Member <input type="checkbox"/> Renewal	In which activities would you like to participate?
Name: _____		Field Day ⇒ <input type="checkbox"/>
Address: _____		Demonstrations ⇒ <input type="checkbox"/>
City: _____ State: _____ Zip: _____		Nets or round tables ⇒ <input type="checkbox"/>
Call: _____ Class: N T + G A E Phone: _____		Organize activities ⇒ <input type="checkbox"/>
Mbr of ARRL? <input type="checkbox"/> Yes <input type="checkbox"/> No E-mail: _____		Teach ham classes ⇒ <input type="checkbox"/>
Additional Family Members to Join/Renew:		Full Member \$15: ⇒ <input type="checkbox"/>
Name: _____ Call: _____ Class: _____ ARRL? _____		Family Membership \$18: ⇒ <input type="checkbox"/>
Name: _____ Call: _____ Class: _____ ARRL? _____		Over 65 \$10: ⇒ <input type="checkbox"/>
Name: _____ Call: _____ Class: _____ ARRL? _____		Over 65 Family \$12: ⇒ <input type="checkbox"/>
Please indicate how you'd like your <i>Ø-Beat</i> delivered: (Defaults to standard hard copy in the event that NO check boxes are checked)		Associate \$12: ⇒ <input type="checkbox"/>
<input type="checkbox"/> Standard hardcopy via U.S. Mail		<i>Ø-Beat</i> Only \$12: ⇒ <input type="checkbox"/>
<input type="checkbox"/> As a PDF file attachment via e-mail, to help save a few bucks		Donation to Club: \$ _____
<input type="checkbox"/> I'll save the club a few bucks and download it from the Web!		Total Enclosed: _____
MAKE ALL CHECKS PAYABLE TO "PPRAA"		
Circle your interests ⇒ HF / V/UHF / FM / SSB / Digital / DX / Contests / Technical / Hardware / Other _____		
New and renewing members must submit a completed application form along with your check to the Treasurer.		
Please Type or Print Clearly!		

RadioActivities!

Lunch Bunch



the Lunch Bunch !! Note:

The next **Lunch Bunch** is May 10 at Country Buffet in the Citadel Crossing Shopping Center, Academy & Galley, 1130-1300. (*Always the Friday following the club meeting.*) Moe WBØRTF is now coordinating

Dits & Bits

- **For Sale:** Uniden Bearcat 300-ch Trunk Tracker scanner. Two battery packs, charger. Full docs. \$150. Ron NKØP, nk0p@arrl.net, 593-8352.

Hamfest Horizon

- **May 17-19:** Dayton Hamvention, Dayton, OH. 937-276-6930. P.O. Box 964, Dayton OH 45401-0964. www.hamvention.org
- **May 24-26:** WY State Convention, Casper, WY. Contact Dave N7COA, 307-875-5324, n7coa@arrl.net. www.qsl.net/wy7u
- **Jun 1:** PPRAA Megafest 2002! Lewis-Palmer High School. Raffle prize: FT-100D, Yaesu VX-1R. Bob Ryals KIØGF, rryals@pcisys.net, 265-9950. www.qsl.net/ppraa
- **Jul 12-14:** Rocky Mtn Division Convention, Bryce UT. Kathy Rudnicki N7JSH, , jimkatpa@aol.com, 801-547-9218. www.utahhamfest.org

On April 14, 2002,
R hoda Anderson KB2BZY's mom
passed away in her sleep.
She was residing in a care facility in Pueblo.
Our condolences to
R hoda, Mike and family.

Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521
Colorado Springs, CO 80935-6521 USA

First Class Mail

To: